

US EPA ARCHIVE DOCUMENT



U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	GI09
City, State	Golden Meadow, Louisiana
Latitude	29.11376
Longitude	-90.1844

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/21/2010	.61	.83	.83	.72
08/20/2010	.715	.95	.95	1.1
08/19/2010	.54	.73	.73	.63
08/18/2010	.6	.81	.81	.7
08/17/2010	3.5	1.2	1.2	4.2
08/16/2010	.51	.7	.7	.61
08/15/2010	.57	.78	.78	.67
08/14/2010	.44	.6	.6	13

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/13/2010	.52	.68	.68	.79
08/12/2010	.54	.73	.73	.63
08/11/2010	.51	.7	.7	.61
08/10/2010	.62	.85	.85	.74
08/09/2010	.57	.78	.78	.67
08/08/2010	1.6	2.2	2.2	1.9
08/07/2010	2.3	3.2	3.2	2.8
08/06/2010	.63	.85	.85	.74
08/05/2010	.46	.62	.62	.54
08/04/2010	.54	.73	.73	.63
08/03/2010	.58	.79	.79	.69
08/02/2010	.64	.86	.86	.75
08/01/2010	.51	.7	.7	.62
07/31/2010	.55	.75	.75	.675
07/30/2010	.75	1	1	.89
07/29/2010	.54	.73	.73	.63
07/28/2010	.5	.67	.67	.58
07/27/2010	.56	.76	.76	.66
07/24/2010	.6	.81	.81	.7

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/23/2010	.56	.76	.76	.66
07/22/2010	.55	.74	.74	.64
07/21/2010	.57	.78	.78	.67
07/20/2010	.73	.78	.78	5.1
07/19/2010	.56	.76	.76	.66
07/18/2010	.51	.695	.695	.835
07/17/2010	.56	.76	.76	.66
07/16/2010	.54	.74	.74	.64
07/15/2010	.49	.66	.66	.58
07/14/2010	.56	.76	.76	.66
07/13/2010	.52	.71	.71	.62
07/12/2010	1.7	2.3	2.3	2
07/11/2010	.57	.78	1.1	.67
07/10/2010	.58	.79	.79	.69
07/09/2010	.57	.78	.78	.67
07/08/2010	.54	.73	.73	.63
07/07/2010	.54	.74	.74	.64
07/06/2010	.71	.97	.97	.84
07/05/2010	.97	1.3	1.3	1.1

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/04/2010	.565	.765	.765	.665
07/03/2010	.54	.73	.73	.97
07/02/2010	.56	.76	.76	.66



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Semi Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZ(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/11/2010	.033	.033	.033	.033	.033	.033	.033	.013
07/10/2010	.034	.034	.034	.034	.034	.034	.034	.025
07/09/2010	.033	.033	.033	.033	.033	.033	.033	.085
07/08/2010	.035	.035	.035	.035	.035	.035	.035	.037
07/07/2010	.033	.033	.033	.033	.033	.033	.033	.023
07/06/2010	.032	.032	.032	.032	.032	.032	.032	.022
07/05/2010	.033	.033	.033	.033	.033	.033	.033	.019
07/04/2010	.034	.034	.034	.034	.034	.034	.034	.047

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/03/2010	.032	.032	.032	.032	.032	.032	.032	.063
07/02/2010	.032	.032	.032	.032	.032	.032	.032	.038



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SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Polycyclic Aromatic Hydrocarbons
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/11/2010	.033	.033	.033	.033	.033	.033	.033	.013
07/10/2010	.034	.034	.034	.034	.034	.034	.034	.025
07/09/2010	.033	.033	.033	.033	.033	.033	.033	.085
07/08/2010	.035	.035	.035	.035	.035	.035	.035	.037
07/07/2010	.033	.033	.033	.033	.033	.033	.033	.023
07/06/2010	.032	.032	.032	.032	.032	.032	.032	.022

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/05/2010	.033	.033	.033	.033	.033	.033	.033	.019
07/04/2010	.034	.034	.034	.034	.034	.034	.034	.047
07/03/2010	.032	.032	.032	.032	.032	.032	.032	.063
07/02/2010	.032	.032	.032	.032	.032	.032	.032	.038



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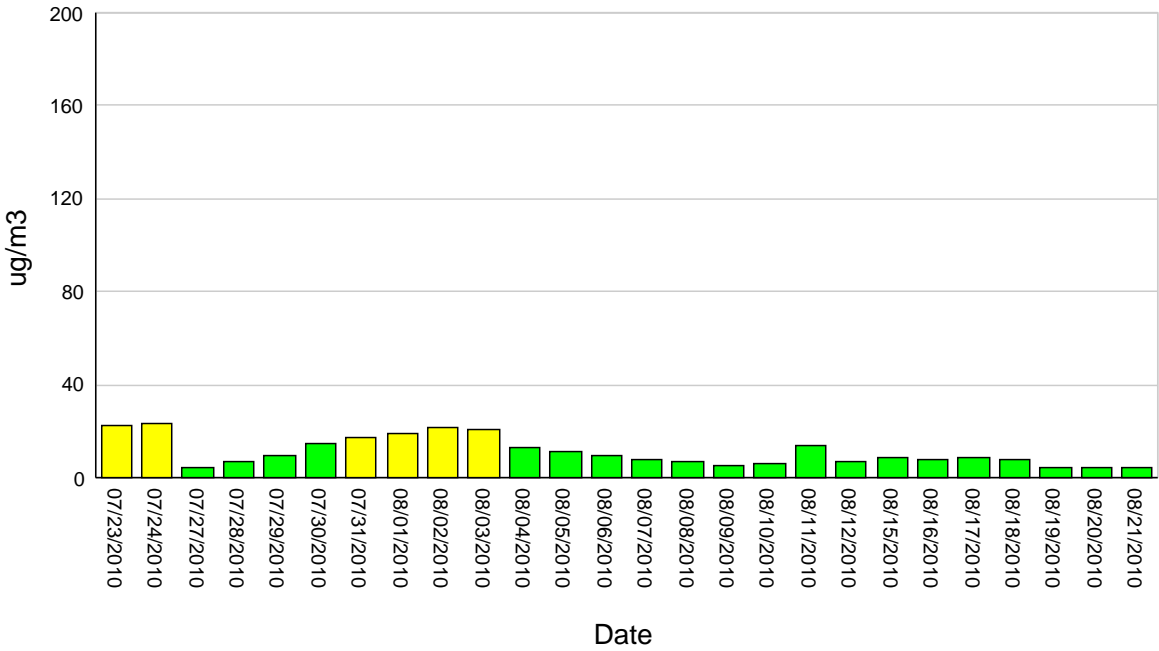
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Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
35.5-65.4	101 to 150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
65.5-150.4	151 to 200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
150.5-250.4	201 to 300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
250.5-500.4	301 to 500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

Particulates Chemical Results in µg/m3

DATE RANGE	Particulate Matter 2.5 microns
08/21/2010	4.53411
08/20/2010	4.01003
08/19/2010	4.59
08/18/2010	7.39
08/17/2010	8.90553
08/16/2010	8.11404



DATE RANGE	Particulate Matter 2.5 microns
08/15/2010	8.94415
08/12/2010	6.53732602
08/11/2010	13.7189
08/10/2010	6.32543
08/09/2010	5.2791
08/08/2010	7.24095
08/07/2010	8.02048
08/06/2010	9.73378
08/05/2010	11.00296234
08/04/2010	12.9741
08/03/2010	20.516
08/02/2010	21.3385
08/01/2010	18.6356
07/31/2010	17.1125
07/30/2010	14.4885
07/29/2010	9.67331353
07/28/2010	6.69996
07/27/2010	4.54739
07/24/2010	23.0553

DATE RANGE	Particulate Matter 2.5 microns
07/23/2010	22.695
07/22/2010	16.11394558
07/21/2010	14.7732
07/20/2010	12.3328
07/19/2010	13.47
07/18/2010	9.45
07/17/2010	9.32
07/16/2010	14.65
07/15/2010	13.8
07/14/2010	20.9362
07/13/2010	13.9721
07/12/2010	16.9
07/11/2010	6.16
07/10/2010	5.6
07/09/2010	11.49
07/08/2010	16.9
07/07/2010	15.77
07/06/2010	11.4775
07/05/2010	6.88034

DATE RANGE	Particulate Matter 2.5 microns
07/04/2010	7.3274
07/03/2010	11.7769
07/02/2010	13.3036